

Session Program

Mar 16 - 18, 2021



Rencontres des Jeunes Physicien·ne·s 2021

Oral presentations session

Tue, March 16

2:10 PM

Oral presentations session

Session

2:10 – 2:30 PM **Stellar nucleosynthesis and superheavy nuclei in our Universe and in the lab!**

Speaker

Ms Zoé Favier

2:30 – 2:50 PM **Theoretical prototype of a Hodgkin-Huxley neuron with 2D nanofluidic memristors**

Speaker

Paul Robin

2:50 – 3:10 PM **How does antimatter fall?: focus on GBAR experiment (CERN)**

Speaker

Olivier Rousselle

3:10 PM

4:00 PM

Oral presentations session

Session

4:00 – 4:20 PM **Investigating dense matter using Neutron Star observations**

Speaker

Ms Lami Suleiman

4:20 – 4:40 PM **A new born hypothesis for the Madden-Julian Oscillation (MJO)**

Speaker

Masoud Rostami

4:40 – 5:00 PM

JT-60SA Tokamak Toroidal Field Coils Quench Analyses with STREAM New Analytical Model

Speaker

Quentin Gorit

5:20 PM

Wed, March 17

2:00 PM

Oral presentations session

Session

2:00 – 2:20 PM

Nonlinear neural network dynamics accounts for human confidence in a sequence of perceptual decisions

Speaker

Kevin Berlemont

2:20 – 2:40 PM

A thin solid hydrogen target for ion acceleration at a high repetition rate

Speaker

Jeyathan Viswanathan

2:40 PM

4:10 PM

Oral presentations session

Session

4:10 – 4:30 PM

Unveiling nanoscale optical and structural properties of TMD monolayers using combined electron spectroscopies techniques

Speaker

Noémie Bonnet

4:30 – 4:50 PM

Globular clusters - Milky Way and beyond

Speaker

Rashi Jain

4:50 – 5:10 PM

Axion hot dark matter bound, reliably

Speaker

Gioacchino Piazza

5:10 PM

Thu, March 18

2:00 PM

Oral presentations session

Session

2:00 – 2:20 PM **Probing inflation with cosmological observations**

Speaker

Thomas Montandon

2:20 – 2:40 PM **New coarse grained approach to study polymer networks**

Speaker

Mr Gérald Munoz

2:40 – 3:00 PM **Nuclear Structure and alpha radioactivity**

Speaker

Florian Mercier

3:00 – 3:20 PM **EFT and Top quark spin observables**

Speaker

abdellah Tnourji

3:20 PM

3:40 PM

Oral presentations session

Session

3:40 – 4:00 PM **Multi-messenger Transient Astrophysics with very-high energy gamma rays**

Speaker

Halim Ashkar

4:00 – 4:20 PM **Survival probability of a run-and-tumble particle in the presence of a drift**

Speaker

Benjamin De Bruyne

4:20 – 4:40 PM **modeling and interpretation of spectral properties of primeval galaxies**

Speaker

adele plat

4:40 – 5:00 PM **Study of Mott materials for neuromorphic applications using a simple circuit model**

Speaker

Rodolfo Rocco

5:00 – 5:20 PM **SHG origin in Gold Nanoantennas**

Speaker

Sanro Mathew

5:20 PM